

IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

1. (currently amended) A data acquisition method of non-real time transmitting in a seismic data acquisition system applied in a mountainous region, comprising ~~has~~ the following steps of:

(1) using ~~the~~ eight digit[[s]] file names representing an absolute time together with three digit[[s]] extension names representing equipment serial names as ~~[[the]]~~ a format of original record file names, wherein the eight digit[[s]] file names and three digit[[s]] extension names ~~consisting~~ of Arabic numerals 0-9 and English letters, and ~~[[;]]~~

(2) wherein all original record file[[s]] names in a data acquisition unit ~~being~~ are 8 + 3 digit[[s]] file names and ~~consisting~~ of Arabic numerals 0-9 and English letters, ~~[[;]]~~ the former eight digits representing years, months, days, hours, minutes, and seconds, ~~[[;]]~~ and the latter three extension ~~names~~ digits representing the equipment~~[[’s]]~~ serial ~~number~~ names of the data acquisition ~~units; units;~~

(3) generating, by ~~[[the]]~~ detonating units, generating SPS (Shell's Processing Support) format spreadsheets of 3-D land seismic exploration assistant data according to the file names generating method of the using step ~~[[(1)]]~~, and, at the same time, ~~it is appointed that by~~ ~~means of~~ distinguishing intermittence signals generated by ~~the~~ high voltage circuits in the detonating units, ~~[[the]]~~ and writing, by operating systems in the detonating units, ~~[[write]]~~ the ~~effective explosion's~~ absolute operating time of an effective explosion into SPS format spreadsheets of 3-D land seismic exploration assistant data according to the ~~detonating unit's~~ file names generating method of the detonating unit when there are intermittence signals, and

not recording ~~the said~~ any absolute operating time in SPS format spreadsheets of 3-D land seismic exploration assistant data when there are no intermittence signals;

(4) combining ~~the multiple detonating unit's~~ SPS format spreadsheets of 3-D land seismic exploration assistant data from the multiple detonating units according to SPS format spreadsheets of 3-D land seismic exploration assistant data, which are generated by the multiple detonating units to prepare for retrieving the data; and, while retrieving, inputting the combined ~~multiple detonating unit's~~ SPS format spreadsheets of 3-D land seismic exploration assistant data from the multiple detonating units into ~~[[the]]~~ data retrieval ~~retrieve~~ units, which consist of microprocessors having a system bus;

recording the ~~[[above]]~~ file names ~~effectively recorded~~ in SPS format spreadsheets of 3-D land seismic exploration assistant data ~~being on the basis of~~ using the former eight digit~~[[s]]~~ file names; connecting the data acquisition units and the data retrieval ~~retrieve~~ units by network lines ~~in the way of network~~; operating the data ~~retrieving programmes~~ retrieval ~~programs~~ in the data retrieval ~~retrieve~~ units; connecting ~~[[the]]~~ special plugs of the data retrieval ~~retrieve~~ units to ~~[[the]]~~ special plugs of the data acquisition units; and initiating the data ~~retrieving programmes~~ retrieval ~~programs~~ to command the systems to complete the following operations:

a) searching the original file data effectively recorded in the data acquisition units and copying the original file data effectively recorded in the data acquisition units into the data retrieval ~~retrieve~~ units;

b) setting the original file~~[[s]]~~ data effectively recorded as read-only attributes on the ~~disks of computer~~~~[[s]]~~ disks in the data acquisition units to prevent loss of ~~to lose~~ the data, and, in that case, the data can be retrieved;

c) ~~Deleting~~ deleting ~~the great amount of~~ unnecessary data acquired to free

~~release the space of the disk~~[[s]] space so as to prepare for the next recording; and [[.]]

(5) arranging the data sequences indoors after the data retrieving operations; rearranging the original file data effectively recorded in the multiple data ~~retrieve~~ retrieval units into the format recorded in the unit of shots according to [[“]]the ~~regulations~~ format of ~~the same file~~ original record names[["]] on the basis of the layout to provide to the system of processing data.

2. (currently amended) [[A]] The data acquisition method of non-real time transmitting in a seismic data acquisition system applied in mountainous regions according to ~~as~~ claim 1, wherein when the ~~generation of~~ original file names generated and recorded in the data acquisition units are recorded once for every minute, the former eight digits have the following meaning: the first digit of the former eight digits represents years and consists of Arabic numerals and English letters, and is circularly used ~~again and again~~ repeatedly for 36 years; the second digit represents months and consists of Arabic numerals, and is denoted according to the practical calendar; the fifth and the sixth digits represent hours and consist of Arabic numerals, and [[is]] are denoted according to a ~~the~~ 24 hour[[s]] system; and the seventh and the eighth digits represent minutes and consist of Arabic numerals, and [[is]] are denoted according to a ~~the~~ 60 minute[[s]] system.

3. (currently amended) [[A]] The data acquisition method of non-real time transmitting in a seismic data acquisition system applied in mountainous areas according to ~~as~~ claim 1, wherein when the ~~generation of~~ original file names generated and recorded in the data acquisition units are recorded once for every ~~ten-seconds~~ ten seconds, the former eight digits have the following meaning: the first digit of the former eight digits represents years and

consists of English letters, and is circularly used ~~again and again~~ repeatedly for 26 years; the second digit represents months and consists of Arabic numerals and English letters; the third digit represents days and consists of Arabic numerals and English letters, and is denoted according to the practical calendar; the fourth and the fifth digits represent hours and consist of Arabic numerals, and ~~[[is]]~~ are denoted according to ~~a the~~ 24 hour~~[[s]]~~ system; the sixth and the seventh digits represent minutes and consist of Arabic numerals, and ~~[[is]]~~ are denoted according to ~~a the~~ 60 minute~~[[s]]~~ system; and the eighth digit represents seconds; and every ten-second~~[[s]]~~ unit is used as a measure unit.

4. (currently amended) ~~[[A]]~~ The data acquisition method of non-real time transmitting in a seismic data acquisition system applied in mountainous areas according to ~~as~~ claim 1, wherein the extension names of the detonating units are .XX, which denote the serial number of ~~making~~ the detonating units, and the latter two digits after the underscore underline consist of Arabic numerals 0-9 and English letters, which are permuted and combined.